



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Vincent P. Stanton, Jr. Art Unit : 1634
Serial No. : 09/638,267 Examiner : A. Chakrabarti
Filed : August 14, 2000
Title : GENE SEQUENCE VARIANCES IN GENES RELATED TO FOLATE
METABOLISM HAVING UTILITY IN DETERMINING THE TREATMENT OF
DISEASE

BOX AF
Commissioner for Patents
Washington, D.C. 20231

RECEIVED

JAN 21 2003

TECH CENTER 1600/2901

RESPONSE

In response to the action mailed July 8, 2002, please amend the application as follows:

In the claims:

Please amend claims 122 and 123 as follows:

122. (Amended) A method for selecting a treatment for a patient suffering from a condition or disease, comprising:
- determining whether cells of the patient contain at least one variance in the methylenetetrahydrofolate reductase gene, wherein the presence or the absence of the variance in the gene is indicative of the effectiveness of said treatment for the condition or disease, wherein the variance is selected from the group consisting of:
- (a) a variance that causes a G to be present at nucleotide 464 of the mRNA (SEQ ID NO:1) encoded by the methylenetetrahydrofolate reductase gene;
 - (b) a variance that causes a U to be present at nucleotide 519 of the mRNA (SEQ ID NO:1) encoded by the methylenetetrahydrofolate reductase gene;
 - (c) a variance that causes a C to be present at nucleotide 1059 of the mRNA (SEQ ID NO:1) encoded by the methylenetetrahydrofolate reductase gene;

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

January 8, 2003

Signature

Carrie A. Amonte

Typed or Printed Name of Person Signing Certificate

Carrie A. Amonte

3:23